

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053192.D
 Acq On : 24 Dec 2018 18:20
 Operator : MD\SY
 Sample : J6511-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-62(0-5)-GRAB

Quant Time: Dec 24 22:32:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1277067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1968805	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1760092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	632236	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	632457	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
35) Dibromofluoromethane	7.59	113	530993	59.04	ug/l	0.00
Spiked Amount			Recovery	=	118.08%	
50) Toluene-d8	10.09	98	2404769	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	764243	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	

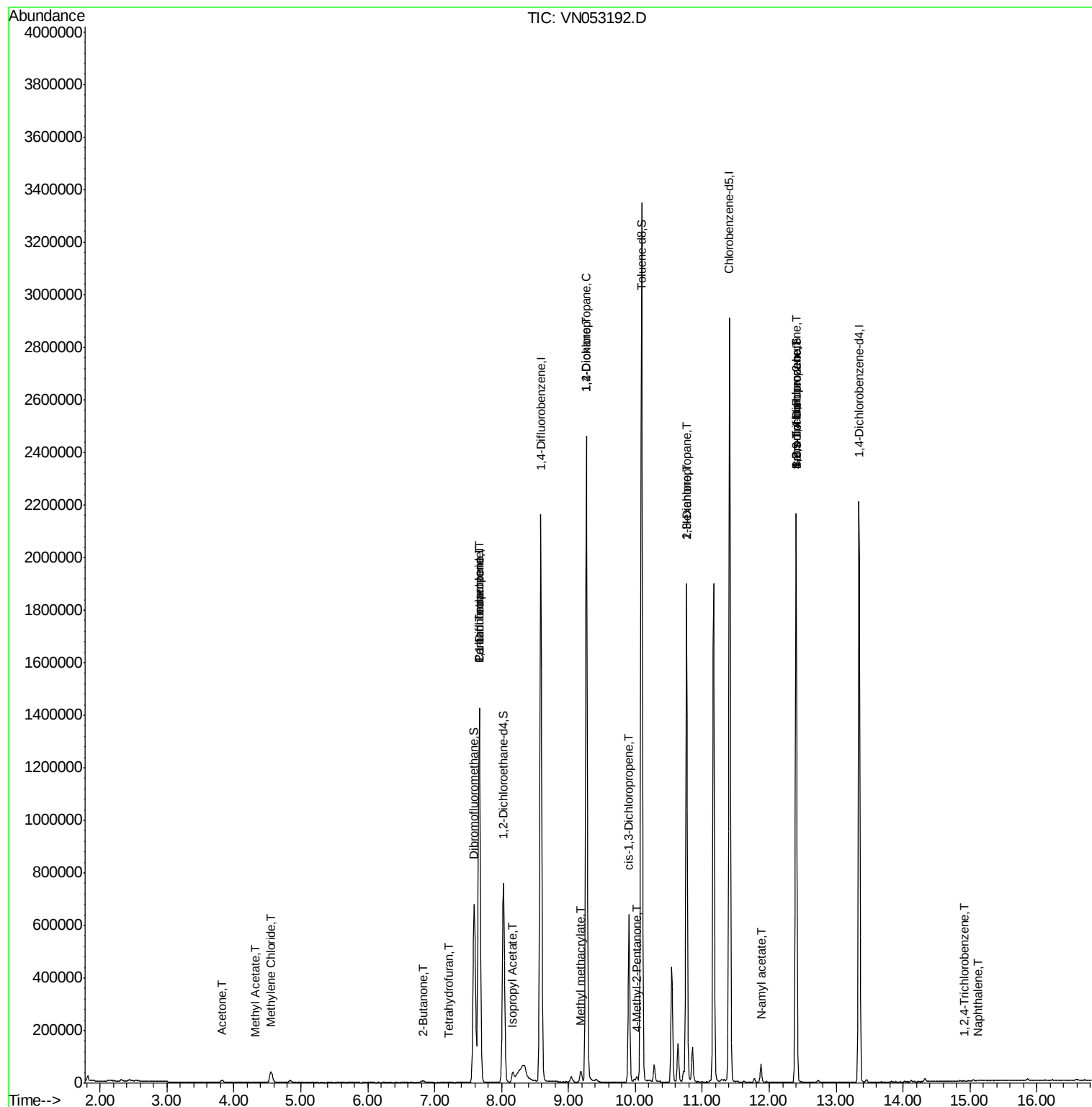
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	16136	6.350	ug/l	96
18) Methyl Acetate	4.33	43	6103	1.511	ug/l #	83
20) Methylene Chloride	4.55	84	32151	2.320	ug/l	98
25) 2-Butanone	6.83	43	982	0.230	ug/l #	75
29) Tetrahydrofuran	7.21	42	1104	0.347	ug/l #	64
31) Cyclohexane	7.67	56	20138	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	83745	4.432	ug/l #	49
38) Carbon Tetrachloride	7.67	117	109487	6.321	ug/l #	16
43) Isopropyl Acetate	8.17	43	52998	1.585	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	3218	0.220	ug/l #	44
48) Methyl methacrylate	9.18	41	15602	1.524	ug/l #	12
49) 1,4-Dioxane	9.27	88	255	1.969	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17498	1.713	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	120135	5.490	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	19608	0.941	ug/l #	43
59) 2-Hexanone	10.76	43	269814	39.035	ug/l #	50
71) Bromoform	12.40	173	4680	0.477	ug/l #	1
74) N-amyl acetate	11.88	43	21266	1.548	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	354110	33.272	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	354110	107.238	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	142	0.608	ug/l #	12
95) Naphthalene	15.13	128	716	1.175	ug/l #	69

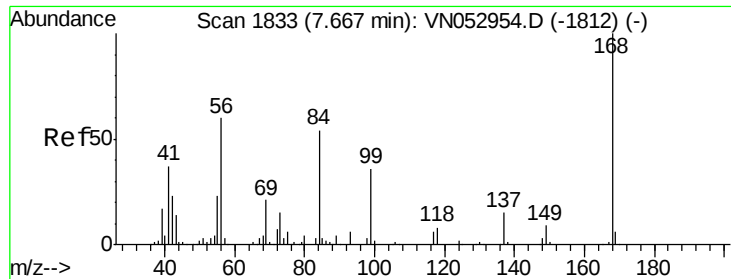
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

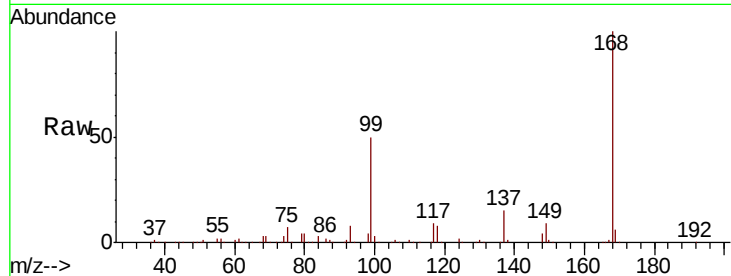
SB-62(0-5)-GRAB

Tot Ion:168 Resp: 1277067

Ion Ratio Lower Upper

168 100

99 50.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053192.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053192.D (-1740) (-)

7.67

600000

500000

400000

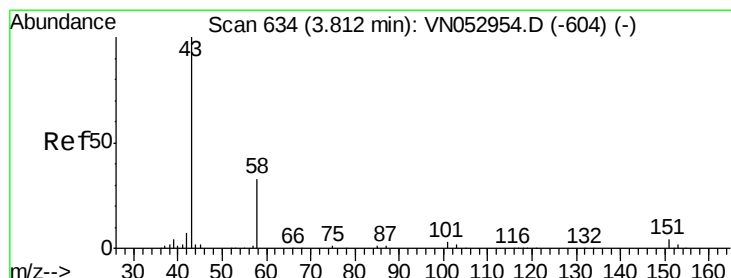
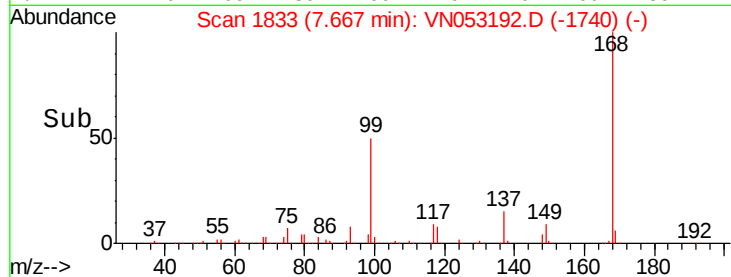
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 6.350 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053192.D

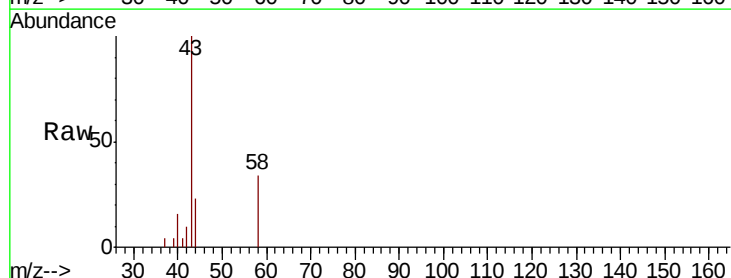
Acq: 24 Dec 2018 18:20

Tgt Ion: 43 Resp: 16136

Ion Ratio Lower Upper

43 100

58 34.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN053192.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN053192.D (-541) (-)

3.82

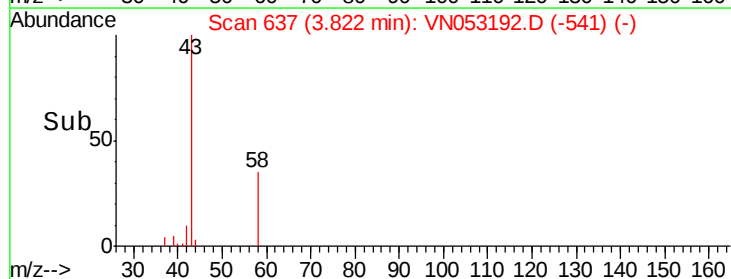
6000

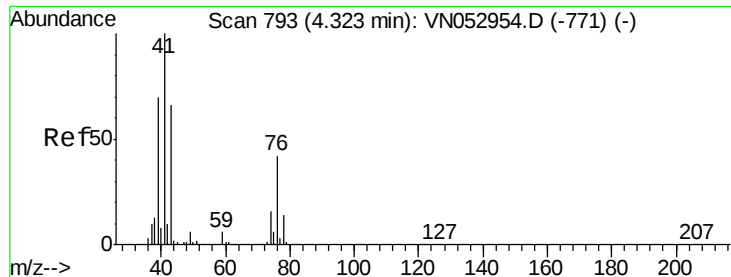
4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90

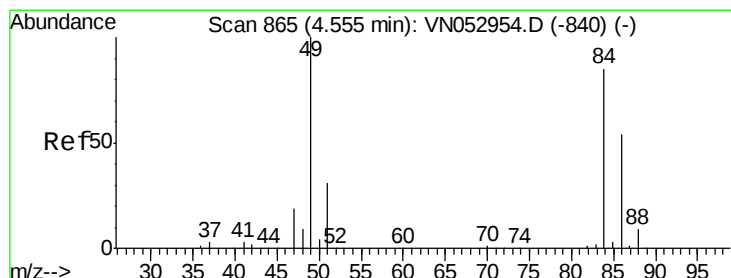
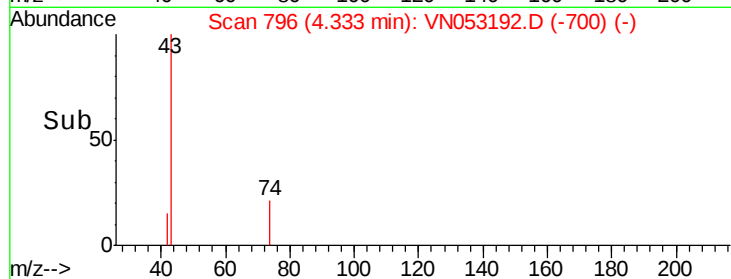
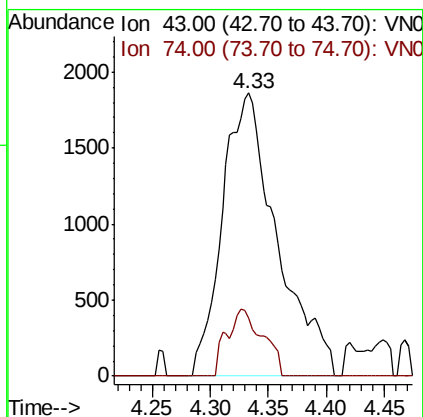
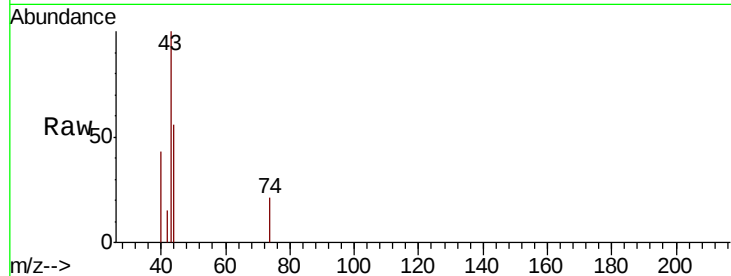




#18
Methyl Acetate
Concen: 1.511 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053192.D
Acq: 24 Dec 2018 18:20

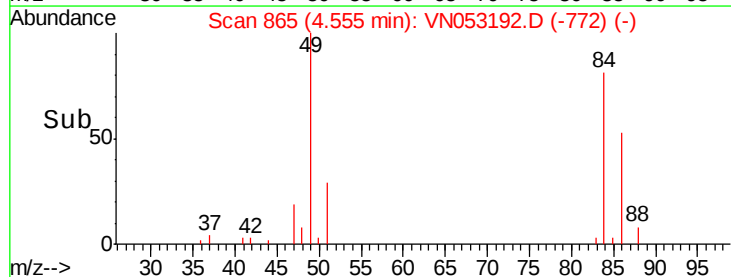
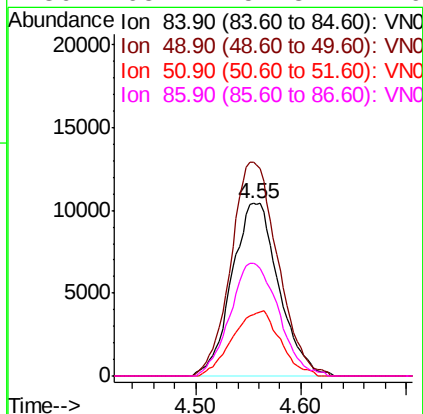
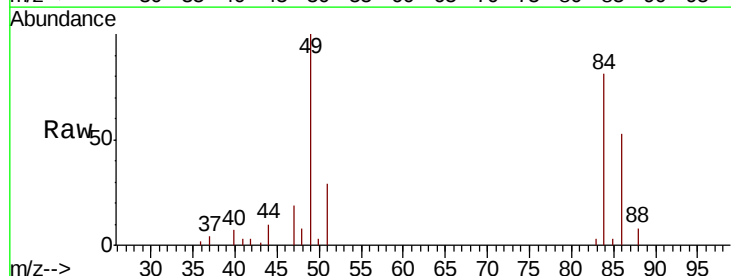
Instrument :
MSVOA_N
ClientSampleId :
SB-62(0-5)-GRAB

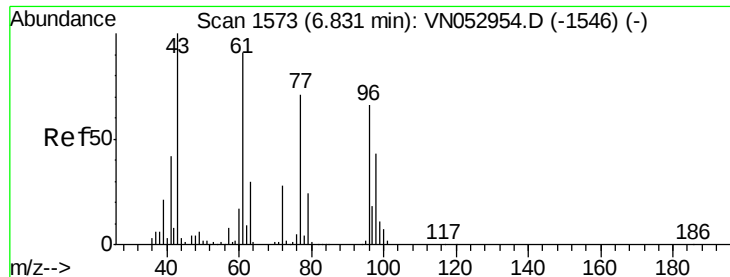
Tot Ion: 43 Resp: 6103
Ion Ratio Lower Upper
43 100
74 15.6 19.2 28.8#



#20
Methylene Chloride
Concen: 2.320 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053192.D
Acq: 24 Dec 2018 18:20

Tgt Ion: 84 Resp: 32151
Ion Ratio Lower Upper
84 100
49 123.4 96.8 145.2
51 35.9 29.9 44.9
86 65.4 51.8 77.6





#25

2-Butanone

Concen: 0.230 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

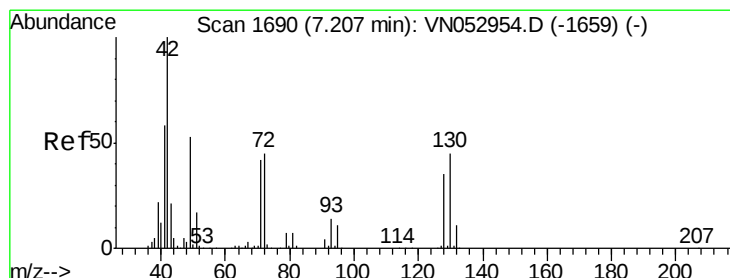
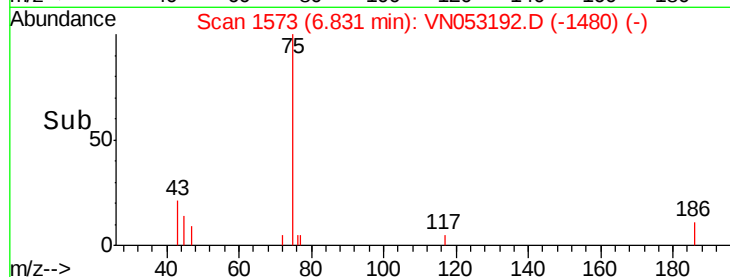
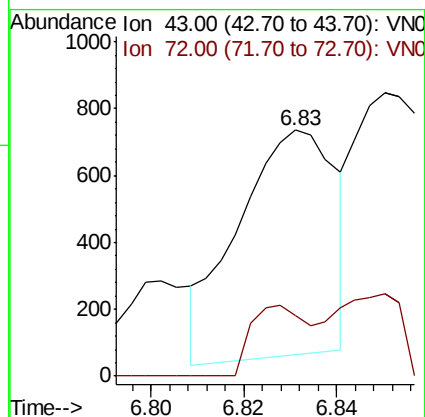
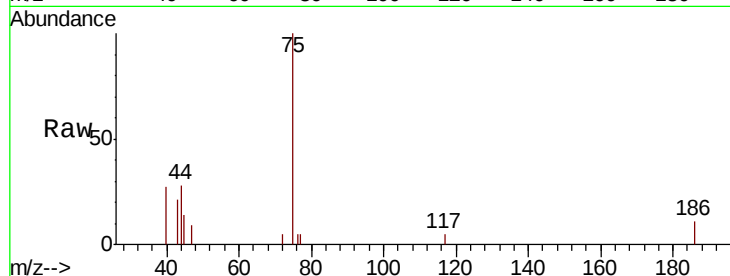
SB-62(0-5)-GRAB

Tot Ion: 43 Resp: 982

Ion Ratio Lower Upper

43 100

72 39.1 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.347 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

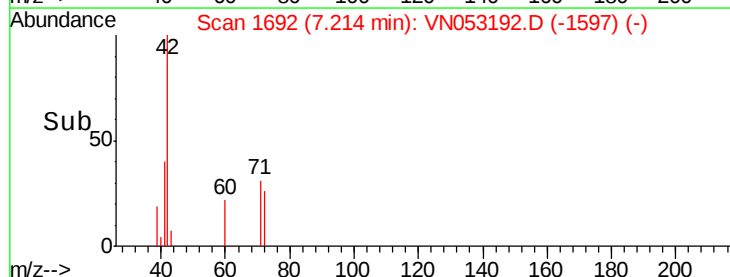
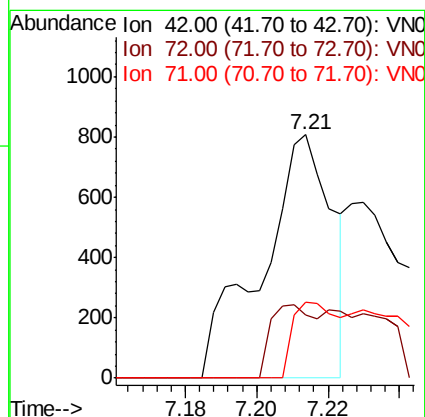
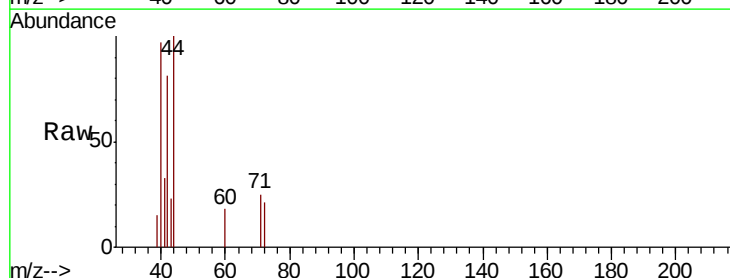
Tgt Ion: 42 Resp: 1104

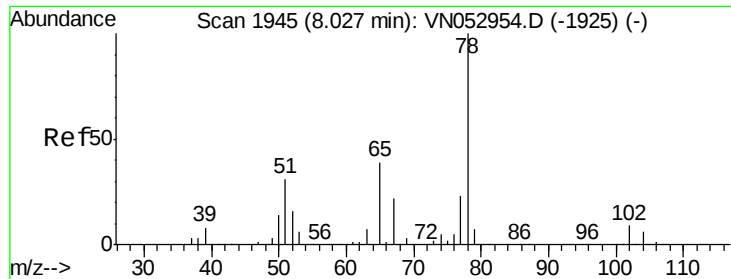
Ion Ratio Lower Upper

42 100

72 19.0 34.7 52.1#

71 19.7 32.3 48.5#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

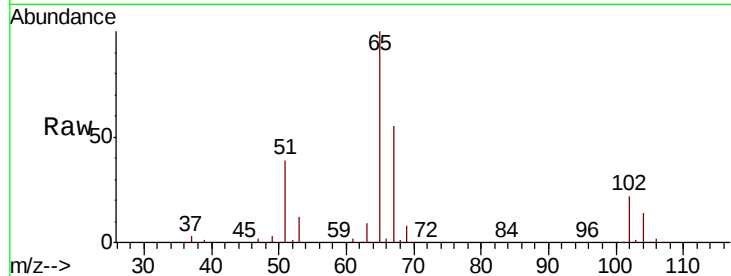
SB-62(0-5)-GRAB

Tot Ion: 65 Resp: 632457

Ion Ratio Lower Upper

65 100

67 55.1 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN053192.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053192.D (-1852) (-)

8.03

300000

250000

200000

150000

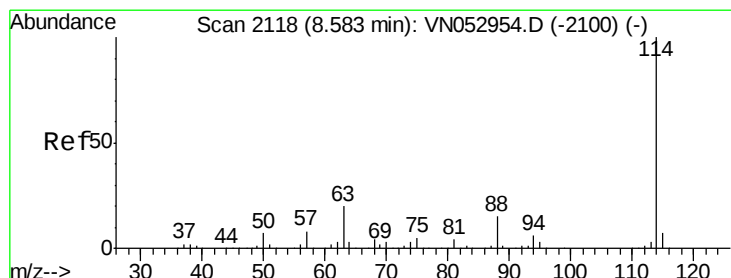
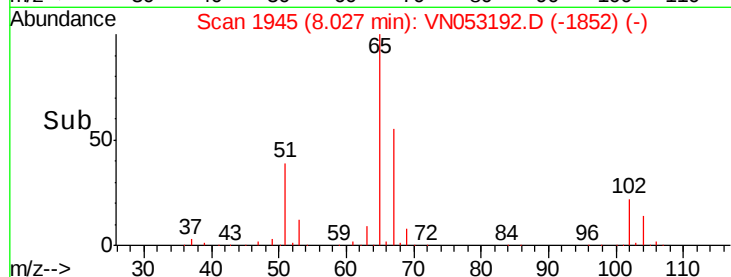
100000

50000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

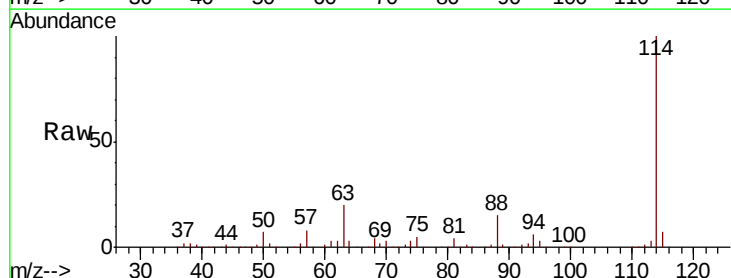
Tgt Ion:114 Resp: 1968805

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

88 15.3 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN053192.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN053192.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN053192.D (-2025) (-)

8.59

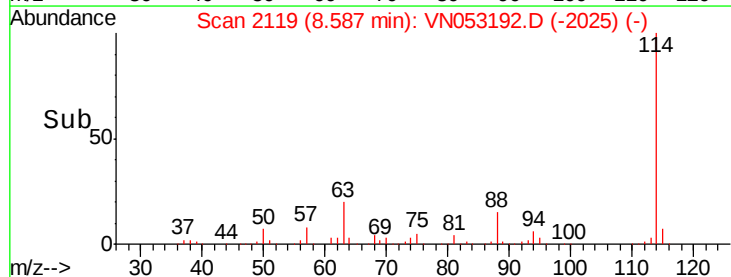
1000000

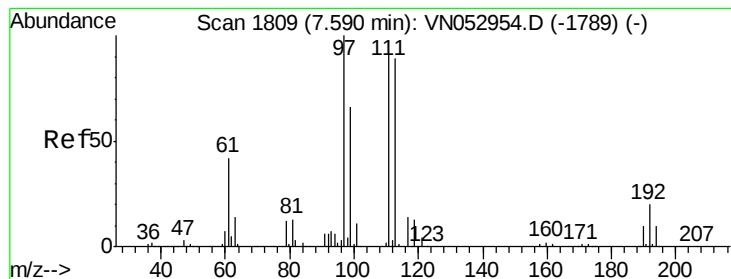
500000

0

Time-->

8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

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ClientSampleId :

SB-62(0-5)-GRAB

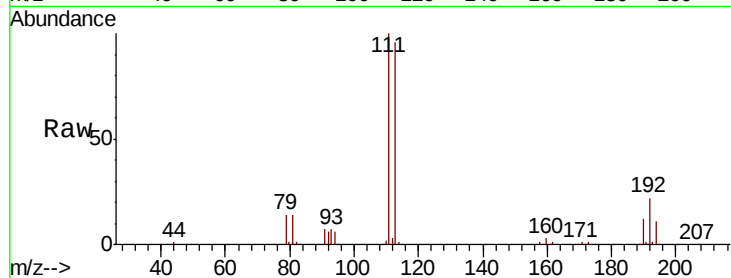
Tot Ion:113 Resp: 530993

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.4

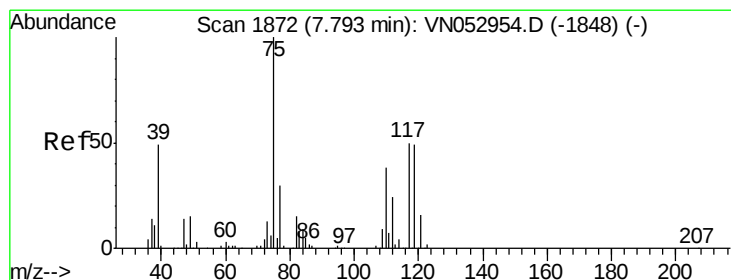
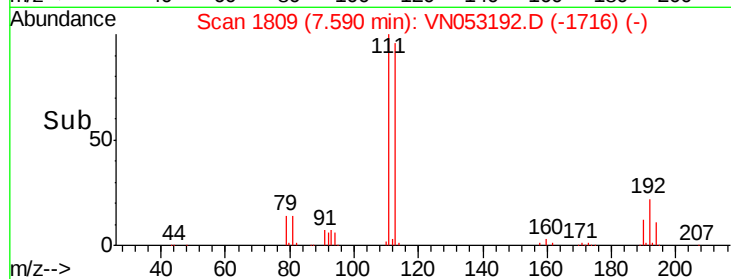
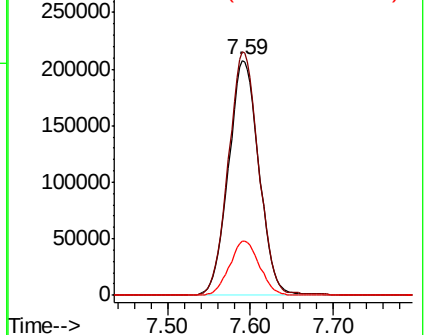
192 22.8 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.432 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

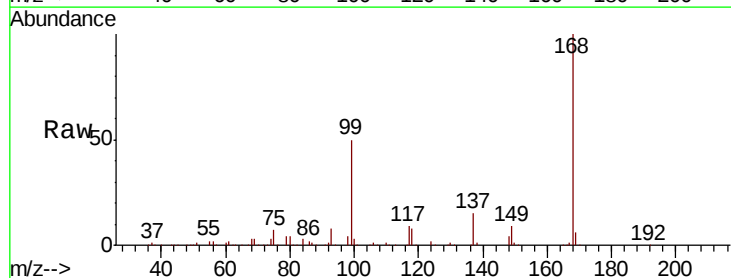
Tgt Ion: 75 Resp: 83745

Ion Ratio Lower Upper

75 100

110 8.7 18.2 54.6#

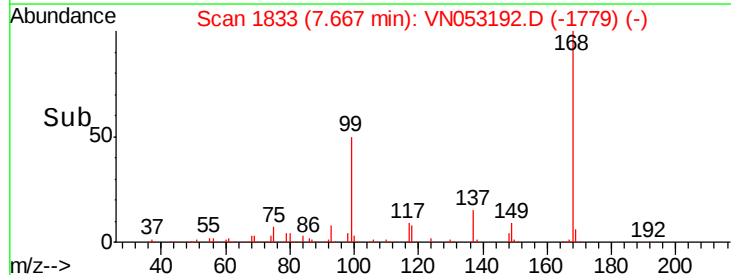
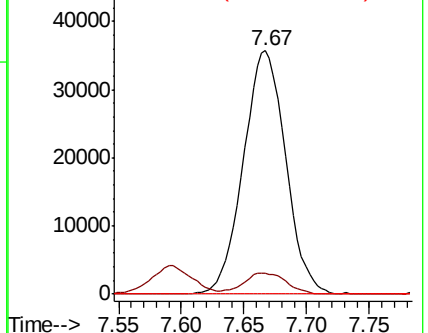
77 0.0 24.9 37.3#

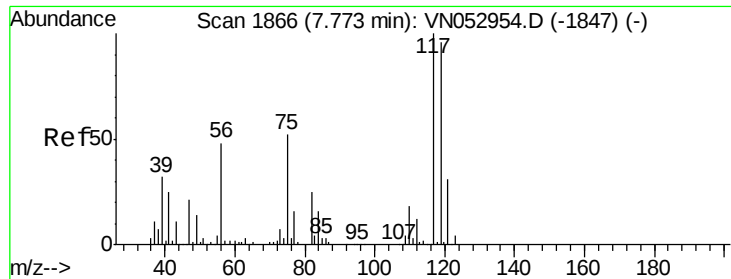


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.321 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

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SB-62(0-5)-GRAB

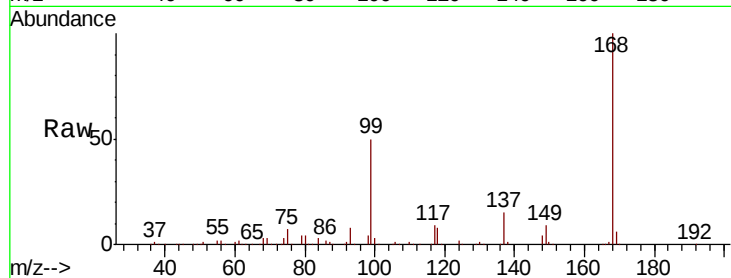
Tot Ion:117 Resp: 109487

Ion Ratio Lower Upper

117 100

119 5.6 77.1 115.7#

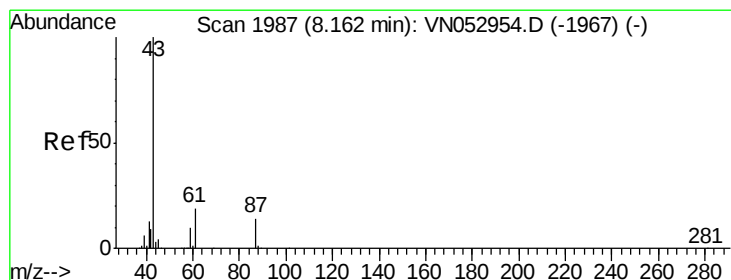
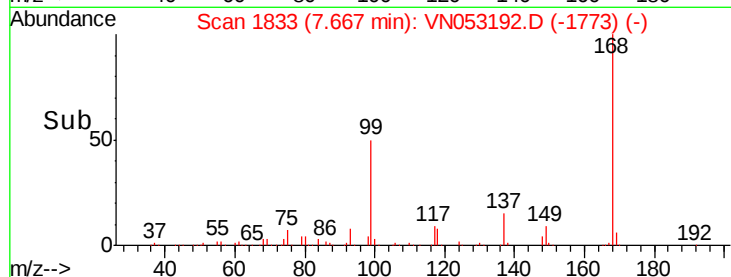
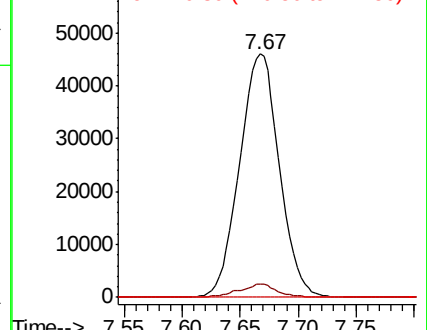
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.585 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

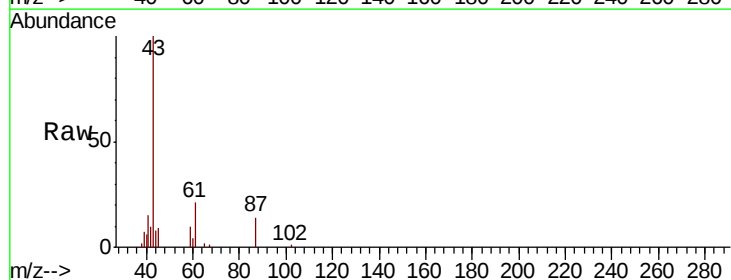
Tgt Ion: 43 Resp: 52998

Ion Ratio Lower Upper

43 100

61 17.8 22.9 34.3#

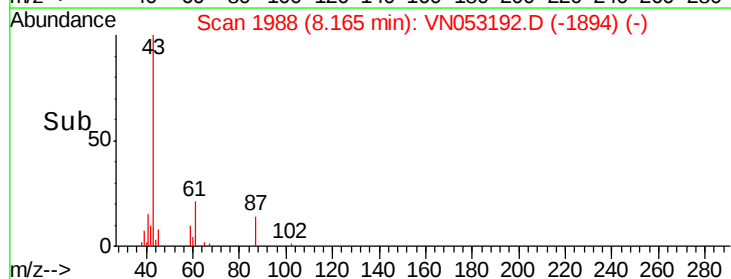
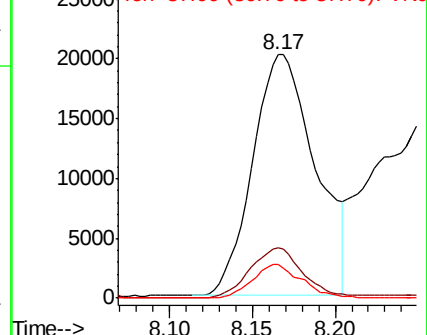
87 11.0 10.6 15.8

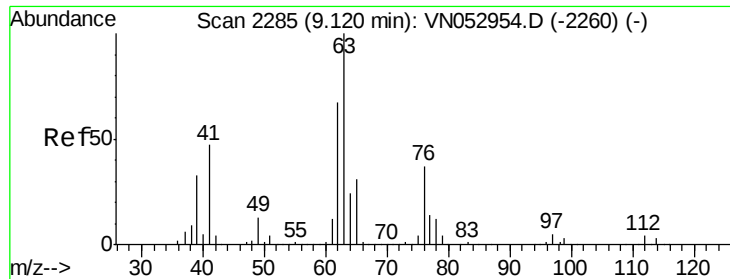


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

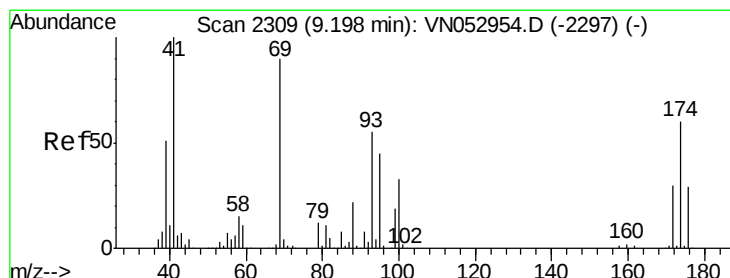
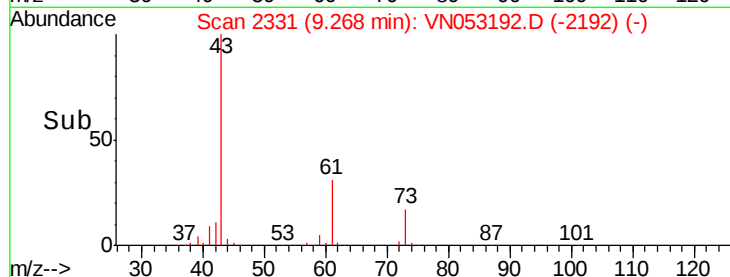
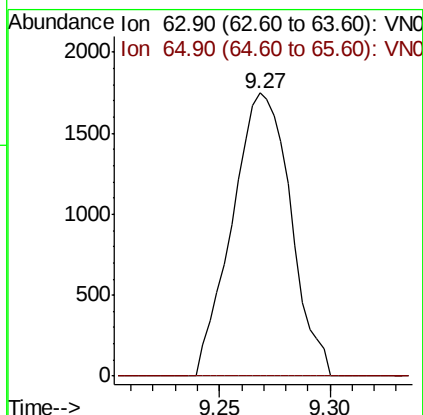
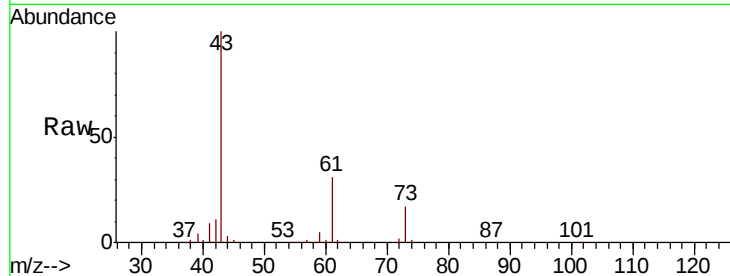




#45
 1,2-Dichloropropane
 Concen: 0.220 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053192.D
 Acq: 24 Dec 2018 18:20

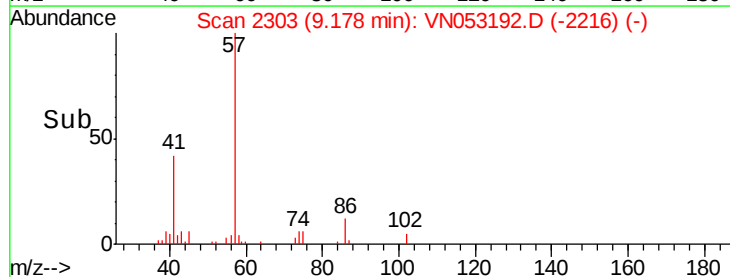
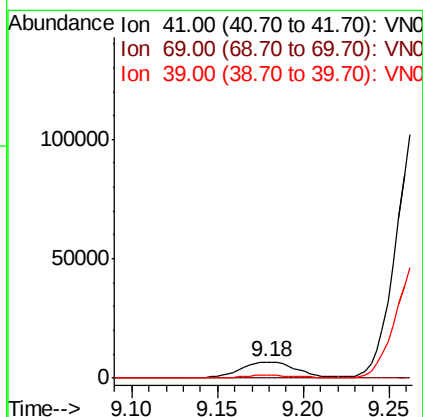
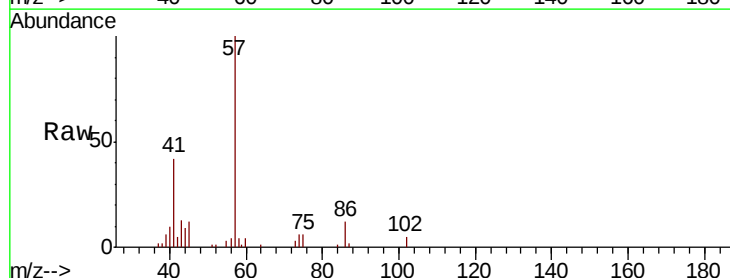
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-62(0-5)-GRAB

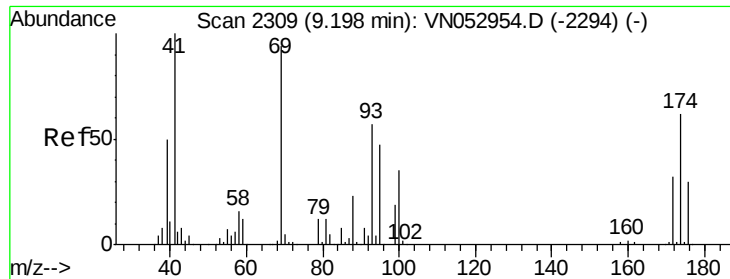
Tot Ion: 63 Resp: 3218
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 1.524 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053192.D
 Acq: 24 Dec 2018 18:20

Tgt Ion: 41 Resp: 15602
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 0.0 41.9 62.9#





#49

1,4-Dioxane

Concen: 1.969 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

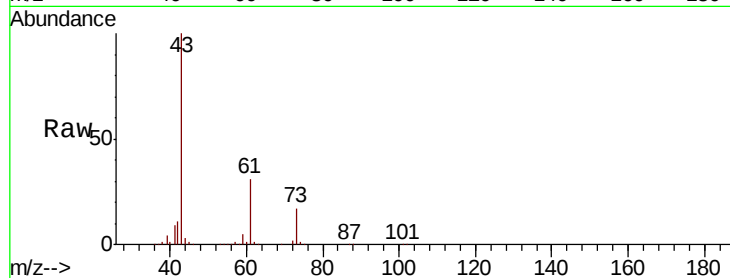
Tot Ion: 88 Resp: 255

Ion Ratio Lower Upper

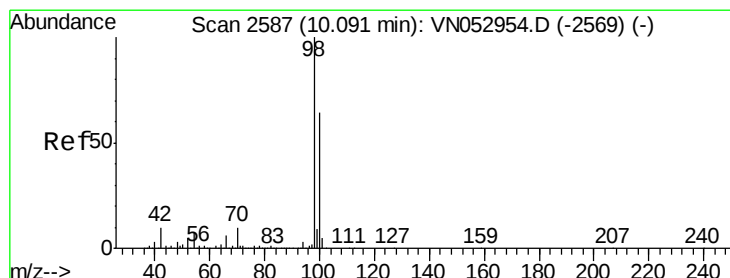
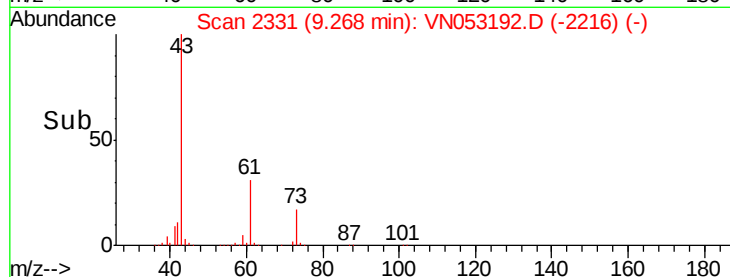
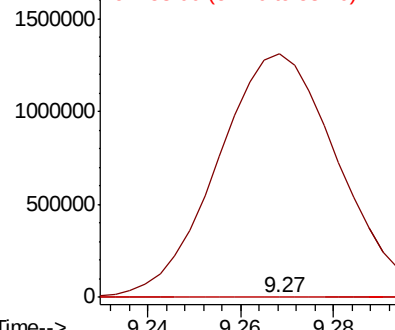
88 100

43 946379.2 26.6 40.0#

58 4139.6 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#50

Toluene-d8

Concen: 1.969 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053192.D

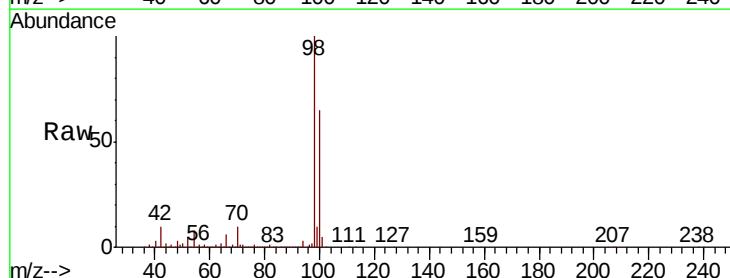
Acq: 24 Dec 2018 18:20

Tgt Ion: 98 Resp: 2404769

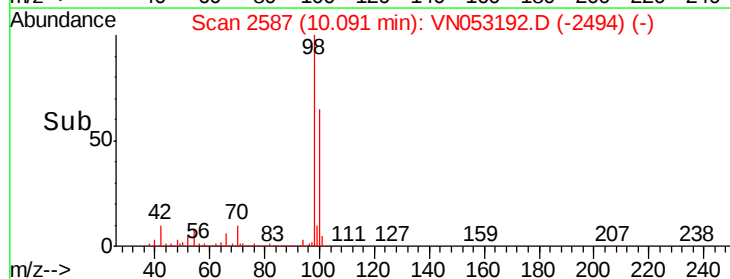
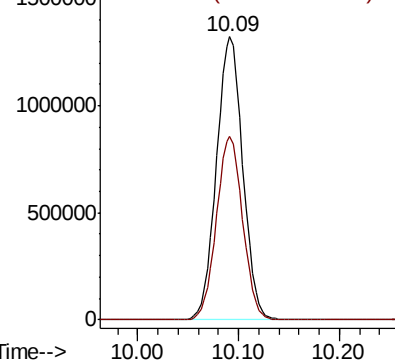
Ion Ratio Lower Upper

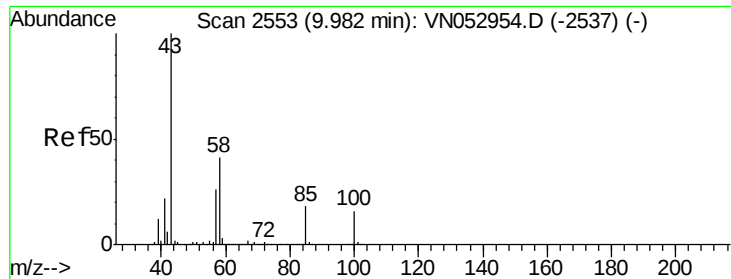
98 100

100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 1.713 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

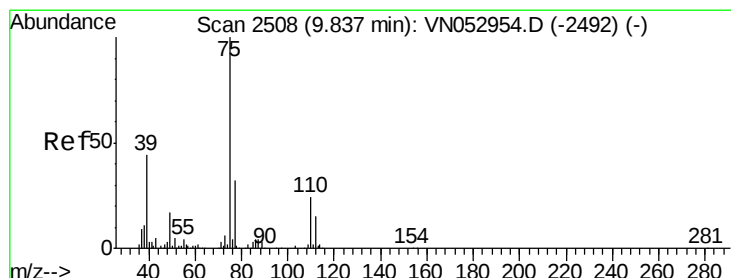
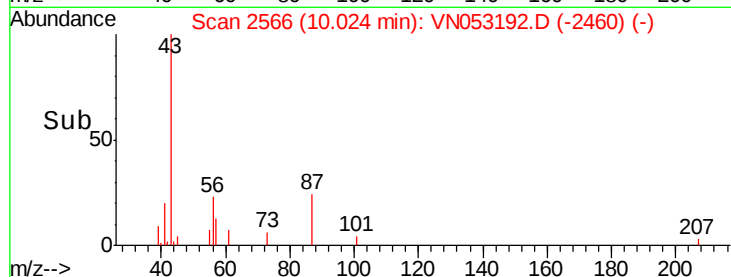
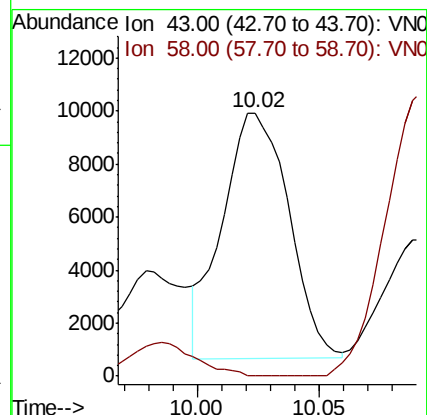
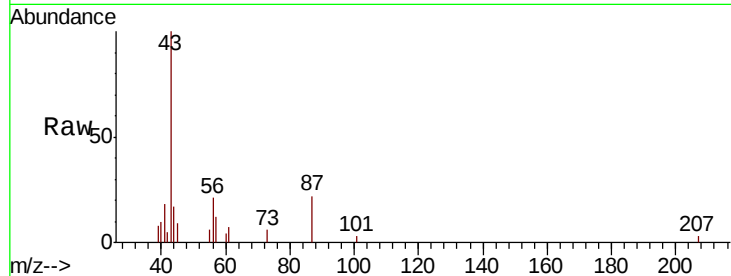
SB-62(0-5)-GRAB

Tot Ion: 43 Resp: 17498

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 5.490 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

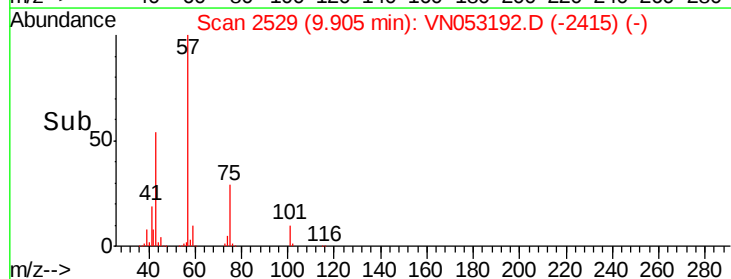
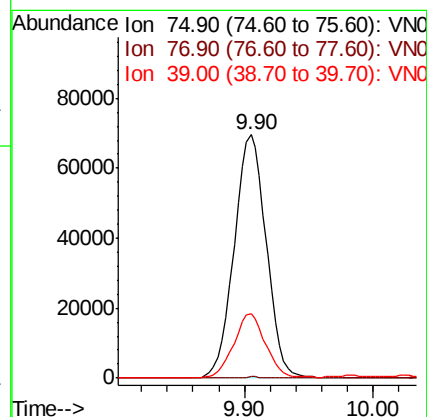
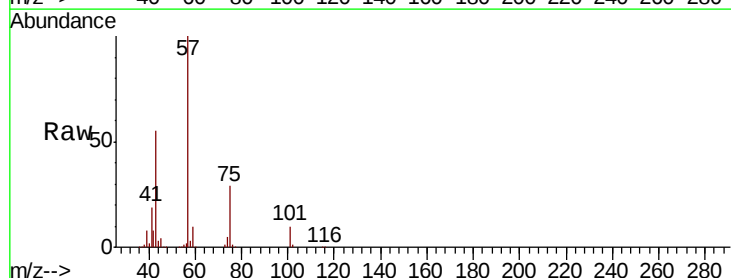
Tgt Ion: 75 Resp: 120135

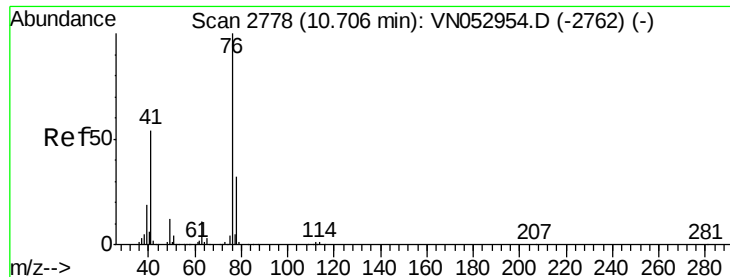
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 26.4 34.8 52.2#

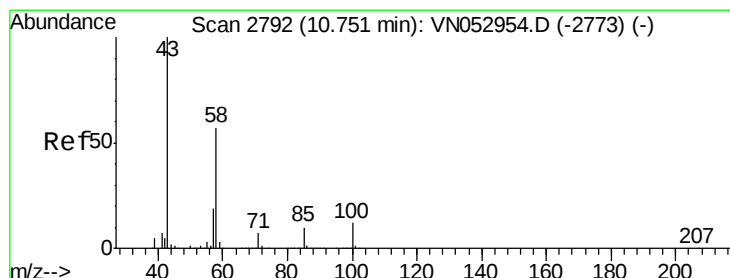
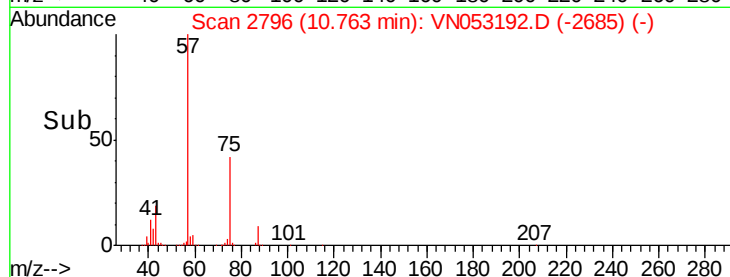
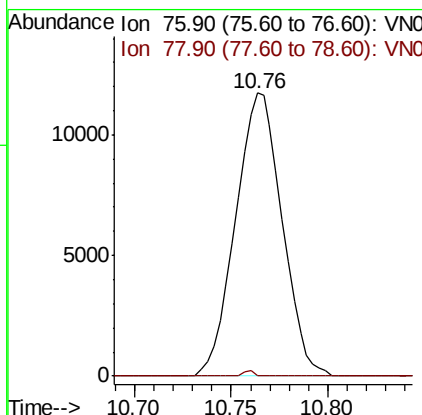
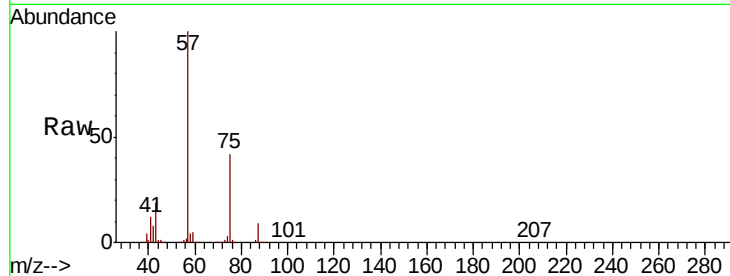




#57
 1,3-Dichloropropane
 Concen: 0.941 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053192.D
 Acq: 24 Dec 2018 18:20

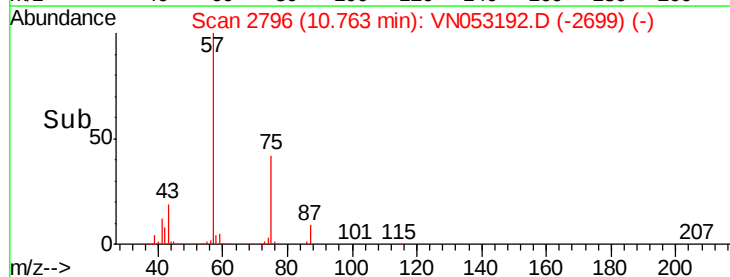
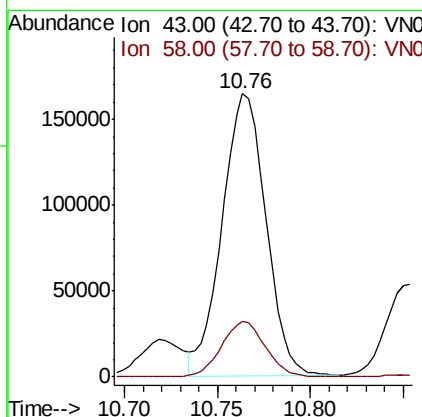
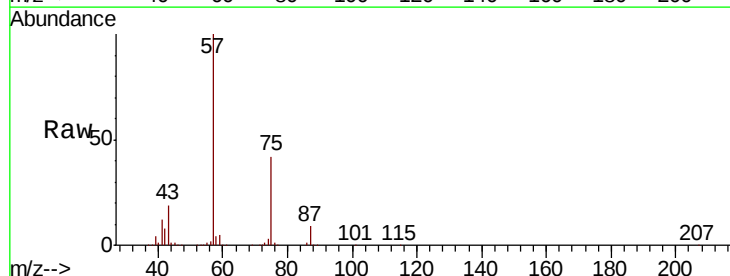
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-62(0-5)-GRAB

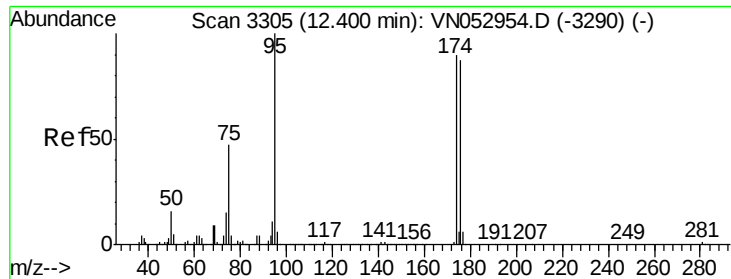
Tot Ion: 76 Resp: 19608
 Ion Ratio Lower Upper
 76 100
 78 0.4 25.8 38.8#



#59
 2-Hexanone
 Concen: 39.035 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053192.D
 Acq: 24 Dec 2018 18:20

Tgt Ion: 43 Resp: 269814
 Ion Ratio Lower Upper
 43 100
 58 19.8 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

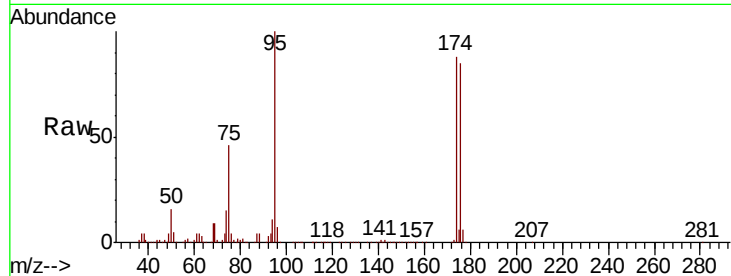
Tot Ion: 95 Resp: 764243

Ion Ratio Lower Upper

95 100

174 89.0 0.0 178.8

176 86.4 0.0 173.8



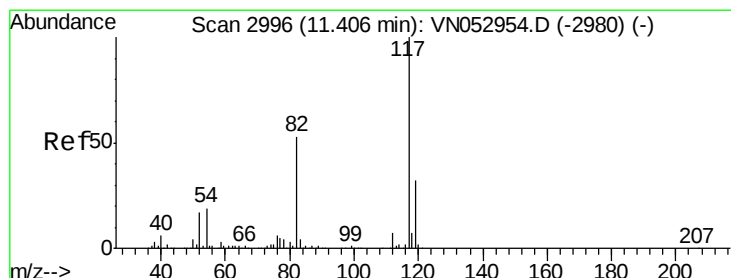
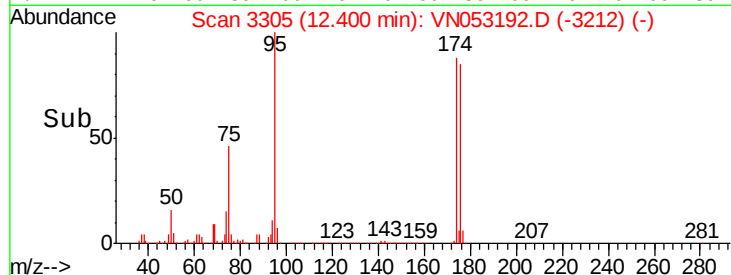
Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)

12.40

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

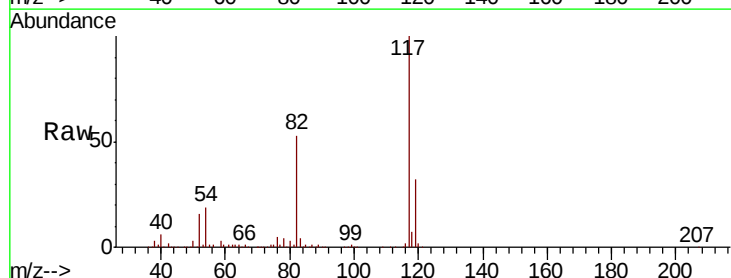
Tgt Ion: 117 Resp: 1760092

Ion Ratio Lower Upper

117 100

82 53.3 42.8 64.2

119 31.7 25.5 38.3



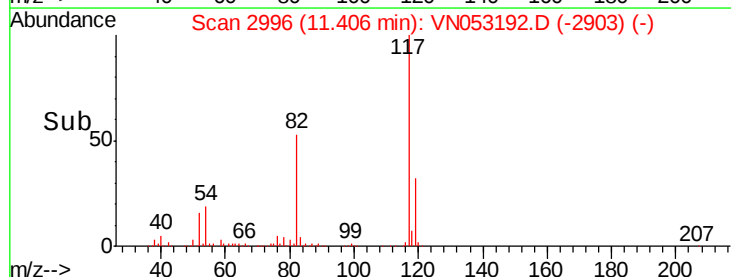
Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

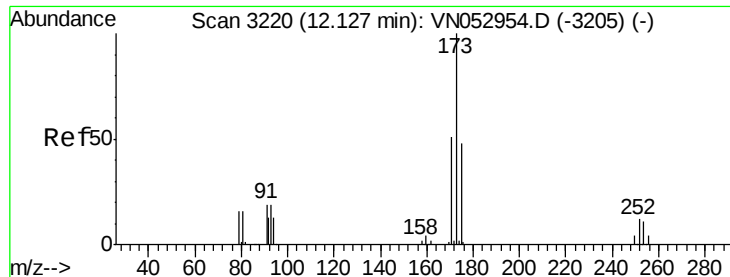
Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)

11.41

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.477 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

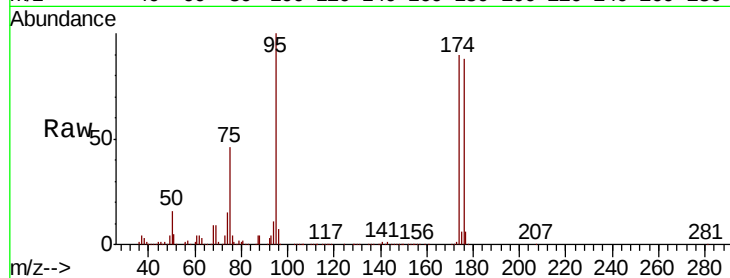
Tot Ion:173 Resp: 4680

Ion Ratio Lower Upper

173 100

175 925.6 24.3 72.9#

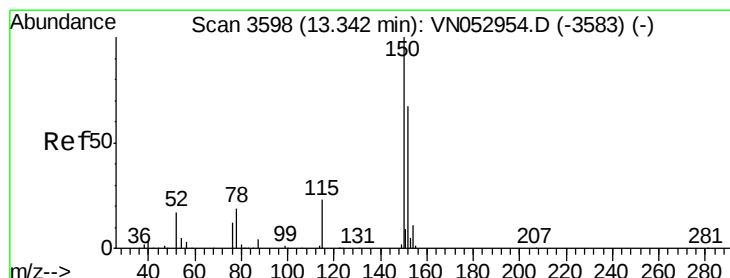
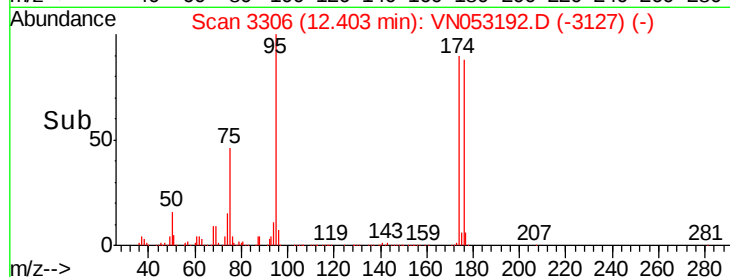
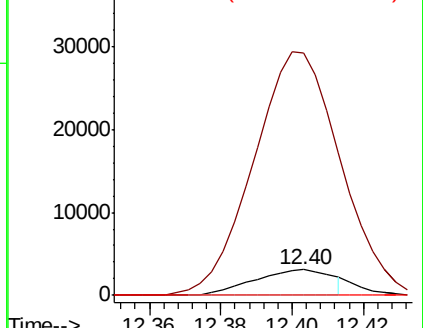
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

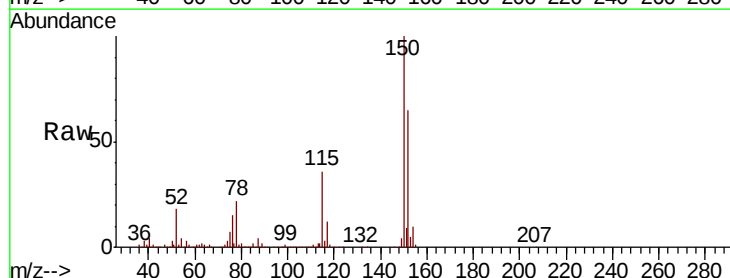
Tgt Ion:152 Resp: 632236

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

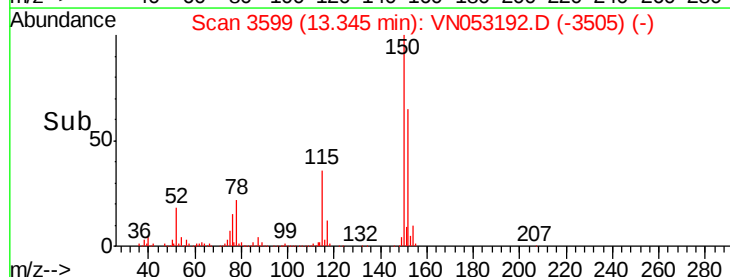
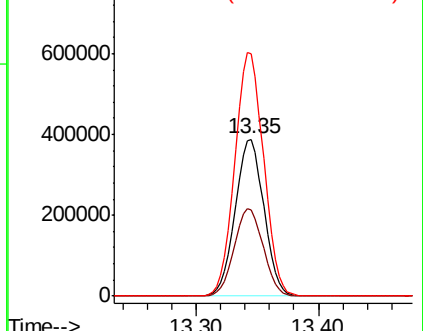
150 155.9 0.0 347.8

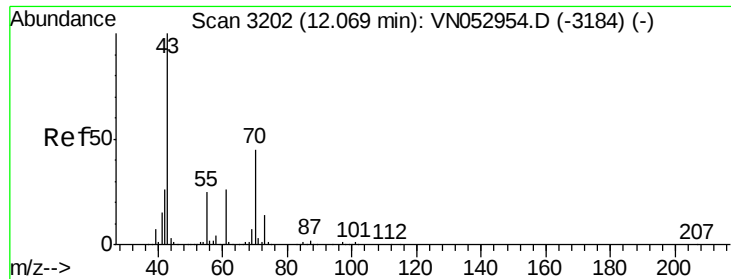


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.548 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

Tot Ion: 43 Resp: 21266

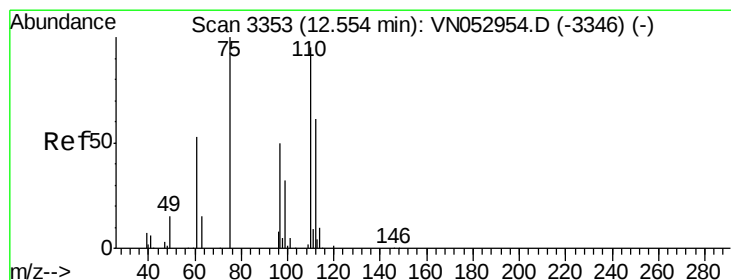
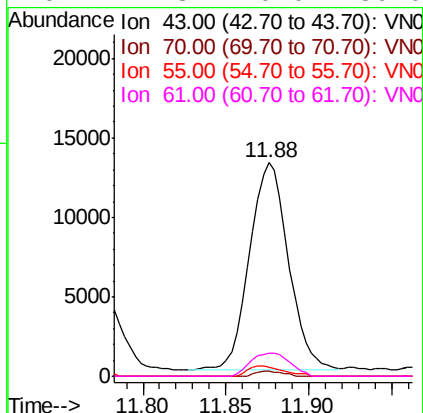
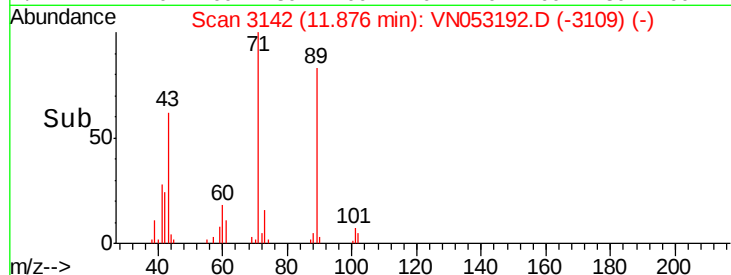
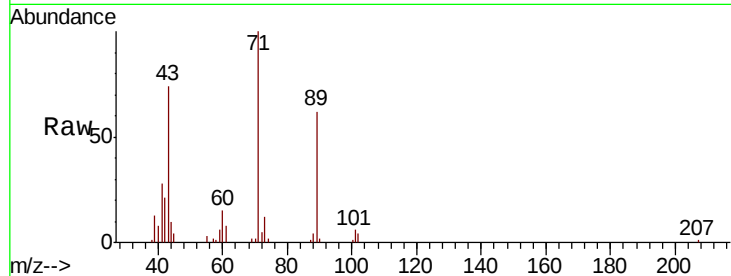
Ion Ratio Lower Upper

43 100

70 1.7 34.2 51.4#

55 4.5 20.3 30.5#

61 11.3 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 33.272 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053192.D

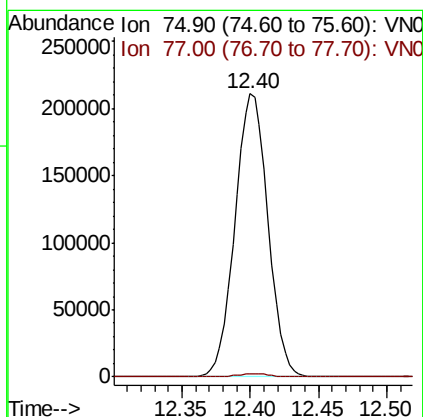
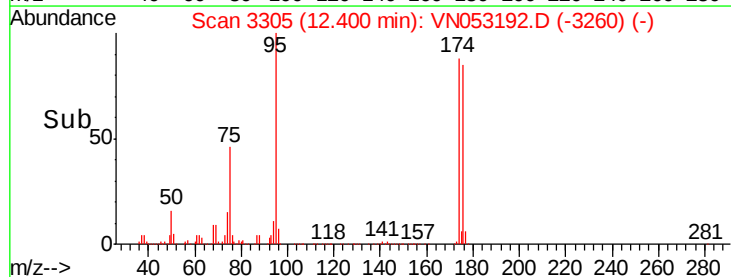
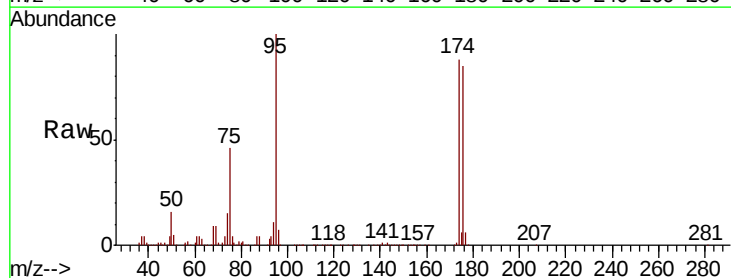
Acq: 24 Dec 2018 18:20

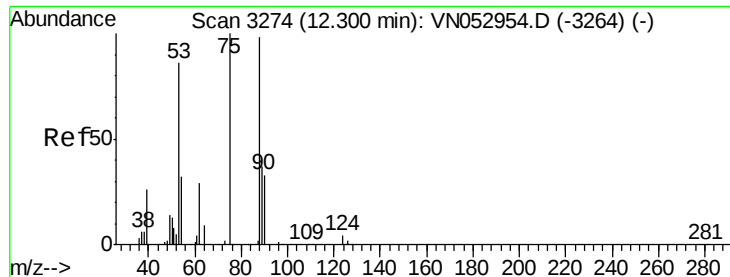
Tgt Ion: 75 Resp: 354110

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 107.238 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

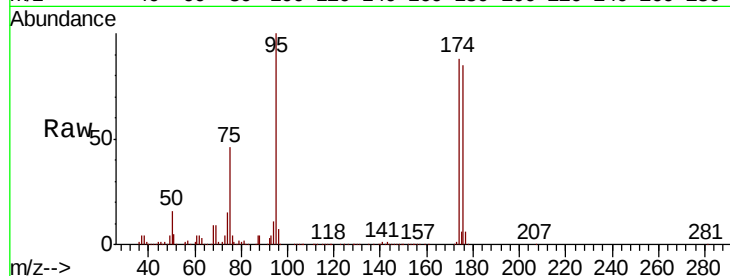
Tot Ion: 75 Resp: 354110

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

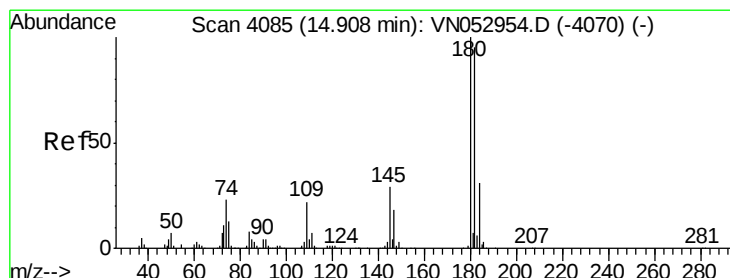
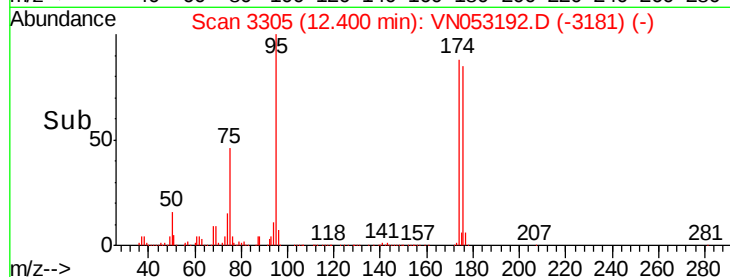
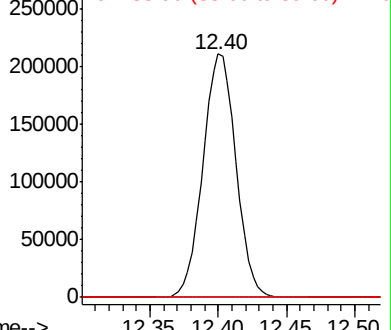
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 0.608 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

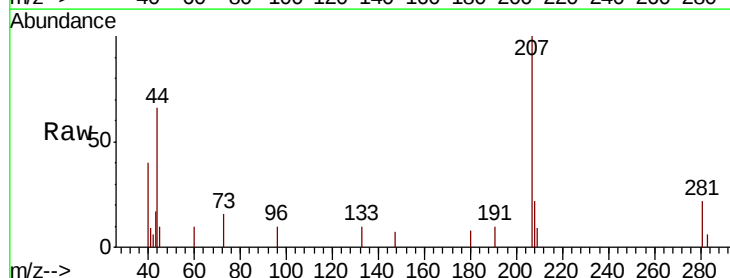
Tgt Ion:180 Resp: 142

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

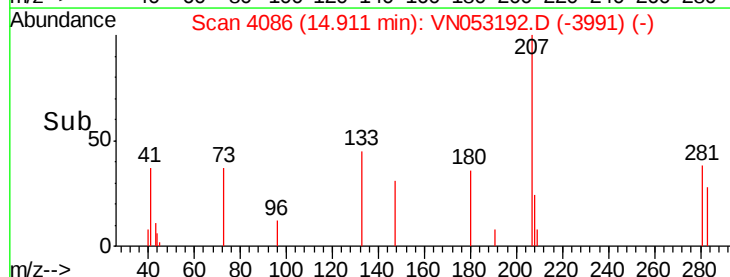
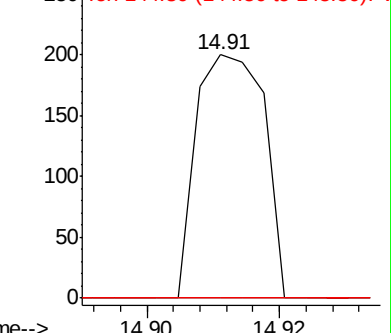
145 0.0 14.2 42.6#

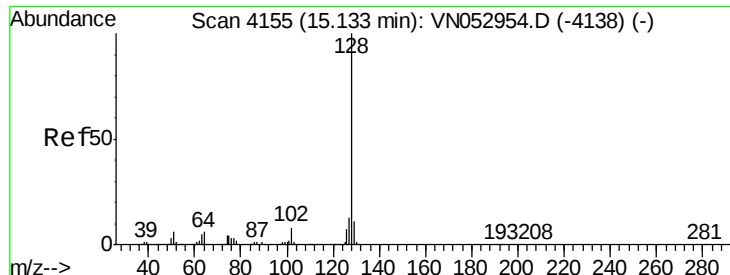


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.175 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053192.D

Acq: 24 Dec 2018 18:20

Instrument :

MSVOA_N

ClientSampleId :

SB-62(0-5)-GRAB

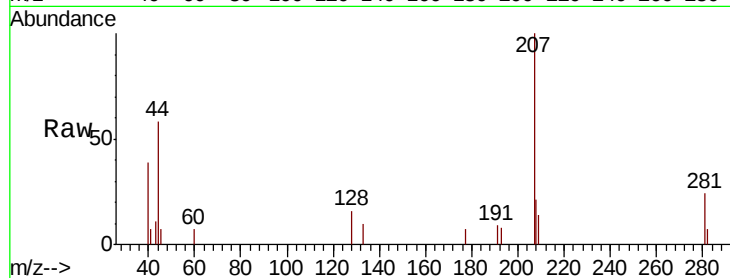
Tot Ion:128 Resp: 716

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

